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			3629		
			DATE MAILED: 07/08/2003	DATE MAILED: 07/08/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n No.	licant(s)	
		POST ET AL.	$\wp$
Office Action Summary	Examiner	Art Unit	
	Naresh Vig	3629	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet	with the correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR REPL	VIS SET TO EXPIRE 31	MONTH(S) FROM	
THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a replection of the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statuted the Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	136(a). In no event, however, may a sly within the statutory minimum of the will apply and will expire SIX (6) MC e, cause the application to become	a reply be timely filed  sirty (30) days will be considered timely.  DNTHS from the mailing date of this cor  ABANDONED (35 U.S.C. § 133).	
1)⊠ Responsive to communication(s) filed on 21	April 2003 .		
2a) This action is <b>FINAL</b> . 2b) ⊠ Ti	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under			merits is
Disposition of Claims			
4)⊠ Claim(s) 1, 3 - 9 is/are pending in the applica			
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) <u>1, 3 - 9</u> is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
9) The specification is objected to by the Examine	or		
10) The drawing(s) filed on is/are: a) □ acce		the Evaminer	
Applicant may not request that any objection to the	•		
11) The proposed drawing correction filed on	• • • • • • • • • • • • • • • • • • • •		r.
If approved, corrected drawings are required in re		,	
12) The oath or declaration is objected to by the Ex	•		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C	. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documen	ts have been received.		
2. Certified copies of the priority documen	ts have been received in	Application No	
Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list.	ureau (PCT Rule 17.2(a))		Stage
14) Acknowledgment is made of a claim for domest	tic priority under 35 U.S.C	C. § 119(e) (to a provisional	application).
<ul> <li>a)  The translation of the foreign language pressurement</li> <li>15) Acknowledgment is made of a claim for domes</li> </ul>			
Attachment(s)		-	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	w Summary (PTO-413) Paper No(s of Informal Patent Application (PTO	
S. Patent and Trademark Office			

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## **DETAILED ACTION**

This is in response to the reply received by the office on 21 April 2003 to the office action mailed on 13 January 2003. Amendment to claim is acknowledged.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 4 – 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Windel et al. US Patent 5,805,711 hereinafter known as Windel in view of Pauschinger US Patent 6,456,987, and further in view of Strategy and IX products from Hughes Network Systems hereinafter known as HNS.

Regarding claim 1, Windel discloses a method for securing data and program code of an electronic postage meter machine against manipulation, having a microprocessor in a control unit of the postage meter machine. Windel discloses implementing steps for a start and initialization routine and following system routine with a possibility of entering into a communication mode with a remote data central, as well

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as further input steps in order to enter into a franking mode from which a branch is made back into the system routine after the implementation of an accounting and printing routine, includes conducting a start security check within the framework of a start and initialization routine which runs before a secure printing data call routine and the following system routine for determining the validity of a program code and/or of data in the predetermined memory location and of an appertaining MAC (message authentication code) [abstract].

Windel discloses that a known postage meter machine is equipped with at least one input means, one output means, an input/output control module, a memory means that carries a program, data and, in particular, the accounting register, a control means (security relevant data) and a printer module. Measures must also be undertaken given a printer module having a mechanical printing arrangement to insure that the printing mechanism cannot be misused for unbilled impressions when it is switched off [col. 1, lines 39 – 47]. On the other hand, the memory means comprises at least one nonvolatile memory module. [col. 2, lines 5-6]. It is a design to elect what information to store in the non-volatile memory. Hughes Network Systems (HNS) manufactured and stored Strategy data switching products, which used non-volatile memory to store the source of software code loading information for the switching modules. In addition to the central server for storing software code and configuration information, HNS Strategy product included as module called MASP which had a local disk to store software code and configuration to load and restore configuration (re-initialize) modules. HNS had introduced IX product line which used which used Flash Memory (non-volatile memory)

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on the on each module (device motherboard) to store software code and configuration, which enabled each module to become operational in less time (software code and configuration loading from local non-volatile memory). In addition, IX product had security information stored in flash memory to secure the access for configuration and making changes to the modules. Therefore, it is known at the time of invention to a person with ordinary skill in the art to use non-volatile memory to make the product function independently.

Windel does not disclose monitoring proper insertion security module.

Pauschinger discloses to determine whether the security arrangement 6 that is allocated to the particular user program or to the respective mail carrier is present. It would have been obvious to a person with ordinary skill in the art the function units like processors have the logic programmed to perform a function as desired. A further check automatically ensues in step 102 in order to interrogate the connection of the appertaining machine base. The aforementioned checks include a mutual verification of the authorization of at least some of the participating components of the system. If one of the interrogations 101 and 102 indicates an absence of any of those components, the user program is terminated (terminator). It is a design choice to elect number of functional units to use for performing desired function. For example, a designer may elect to use one function unit for performing plurality of desired functions, or, may elect to use one function unit for performing each function and make the minimize research expenses by using functional unit available in the market. Therefore, it is known at the

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time of invention to a person with ordinary skill in the art to use plurality of function units to perform desired task to minimize product research costs.

Windel discloses that when the reloading cannot be undertaken, the data central station prevents further operation of the postage meter machine with a signal communicated to the postage meter machine [col. 26, lines 46 – 59]. Alternatively, Pauschinger discloses that the CPU 263 (first function unit) can generate an interrupt signal and supply it as an output to the security arrangement 6 [col. 16, lines 25 – 33].

Windell discloses that U.S. Pat. No. 4,812,965 discloses sensors within the postage meter machine are intended to detect any falsification action that has been undertaken so that a flag can be set (desired task to be performed by a function unit) in appertaining memories in the event that operations were performed on the postage meter machine for manipulative purposes [col. 3, lines 33 – 44].

Windell does not disclose re-initialization. Pauschinger discloses that in U.S. Pat. No. 5,590,198, a removable meter insert is likewise inserted into a slot of a personal computer. A user password is required for operating the franking system, however, a re-initialization is possible with a super password generated by a data center, i.e. without having to send the meter insert back to the manufacturer. Therefore, it is known at the time of invention to a person with ordinary skill in the art to have means and method for re-initialization to minimize sending the meter insert (security module) back to the manufacturer. Examiner has worked at Hughes Network Systems, and, has worked with both Strategy and IX products which were available for sale to customers.

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Windel discloses to activate the device after the security check is performed [Fig. 3, Fig. 4]. Alternatively, Pauschinger discloses to activate the device after the security check [Fig. 11].

Regarding claims 4 – 5, Windel discloses that a start security check routine is undertaken, which checks the most important, externally maintained postage meter machine data and external program code completely encapsulated in the internal ROM and RAM area of the OTP with its program code. This security check routine can thereby recognize manipulations--without an external possibility of influencing with manipulative intent thereby existing--that had been implemented during the deactivated condition of the postage meter machine and can then effectively inhibit further operation of the postage meter machine if the check routines are not run error-free. In this case, the program execution remains in an endless program loop in the OTP-ROM (error handing 1030). The external storage media are used by the MP (read EPROM, write RAM) only after the checks have been run error-free and the system routine 200 is reached [col. 12, lines 24 – 40].

Regarding claim 6, Windel discloses that it is known in the art that according to British Specification 22 33 937 and U.S. Pat. No. 5,181,245, the postage meter machine periodically communicates with the data central. A blocking means allows the postage

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meter machine to be blocked after the expiration of a predetermined time or after a predetermined number of operation cycles and supplies an alarm to the user [col. 6, lines 7 - 21].

Regarding claim 7, Windel discloses that for enabling, an encrypted codeword must be entered from the outside, which is compared to an internally generated, encrypted codeword [col. 6, lines 7 – 21].

Regarding claim 8, Windel discloses that it is known in the art that according to British Specification 22 33 937 and U.S. Pat. No. 5,181,245, the postage meter machine periodically communicates with the data central. A blocking means allows the postage meter machine to be blocked after the expiration of a predetermined time or after a predetermined number of operation cycles and supplies an alarm to the user [col. 6, lines 7 – 21]. It would have been obvious to a person with ordinary skill in the art that selected predetermined time is loaded in the device to be able to determine when to deactivate the device after the expiration of selected predetermined time.

Regarding claim 9, Windel discloses that it is known in the art that according to British Specification 22 33 937 and U.S. Pat. No. 5,181,245, the postage meter machine

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periodically communicates with the data central. A blocking means allows the postage meter machine to be blocked after the expiration of a predetermined time or after a predetermined number of operation cycles and supplies an alarm to the user [col. 6, lines 7 – 21]. It would have been obvious to a person with ordinary skill in the art that selected predetermined time is loaded in the device to be able to determine when to deactivate the device after the expiration of selected predetermined time.

Also, Windel discloses that U.S. Pat. No. 5,243,654 discloses a postage meter machine wherein the ongoing temporal data supplied by a clock/date module are compared to stored data about standstill times. When the standstill time is reached by the running time, the postage meter machine is deactivated, i.e. printing is prevented. When a central data station which reads the accounting data from the incrementing register is contacted, an encoded combination value is communicated to the postage meter machine and a new deadline is set, as a result of which the postage meter machine is again rendered operational [col. 6, lines 22 – 47].

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Windel et al. US Patent 5,805,711 hereinafter known as Windel in view of Pauschinger US Patent 6,456,987, and further in view of Strategy and IX products from Hughes Network Systems hereinafter known as HNS and Emmett et al. US Patent 6,019,281 hereinafter known as Emmett.

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Regarding claim 3. Windel does not disclose containing battery. However, Wendel discloses that it is known in the art that batteries are used in postal security housing [col. 2, line 59]. Emmett discloses that Postal Security Devices (PSD) may be implemented as a cartridge that can be inserted into and removed from the host system. This implementation is advantageous because it allows the PSD to be removed and locked in a secure place when not in use and allows the PSD to be used with multiple hosts. Of particular note is a requirement for the PSD enclosure to detect any tampering at the time the tampering occurs and to immediately erase all memory contents that are cryptographically important (but not the descending and ascending registers). This almost certainly implies using long lived battery-powered detection and erasing circuits, including a 'self destruct' mode for when battery failure is near. [col. 1, lines 60 – col. 2, line 10]. When the PSD is connected to a host and is active, the circuitry to the right of dashed line 47 is preferably powered from the host, and the PSD display circuitry to the left of dashed line 47 may be powered from the host or from its own power source 45. A user-replaceable primary battery (including, but not limited to, lithium and alkaline batteries) or a rechargeable battery (including, but not limited to, NiCd and NiMH batteries) may be used as the power source 45. Another energy storage element (e.g., a capacitor) could also be used as the power source 45 [col. 5, lines 9 – 26]. Therefore, it is known at the time of invention to a person with ordinary skill in the art to use alternate power source like a battery to allow the PSD to be removed and locked in a secure place when not in use and also to allow the PSD to be used with multiple hosts.

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## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1. Hughes Network Systems First To Partner To Become QwestLinked.

2. Hughes Ready For Brave SVC World Solution Offers End-to-End Frame Relay

Over Public Lines.

3. HNS First To Deliver IP and SNA Services On Demand Using Frame Relay

SVCs.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naresh Vig whose telephone number is 703.305.3372. The examiner can normally be reached on M-F 7:30 - 5:00 (Alt Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Weiss can be reached on 703.308.2702. The fax phone numbers for the organization where this application or proceeding is assigned are 703.305.7687 for regular communications and 703.305.7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.305.3900.

JOHN G. WEISS

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600

Naresh Vig June 29, 2003